

WHAT IS CLAIMED IS:

1. A bracket for attachment to a disk drive having a drive front, rear, drive sides, top and bottom and a first connector on the rear for insertion into a chassis having chassis
5 sides formed with guides and a second connector engageable with the first connector when the drive is inserted through the guides into the chassis,

said bracket comprising a pair of bracket sides attachable to the drive sides and a crosspiece across the drive front,

10 at least one said bracket side being formed with a lengthwise split and having an outward bulge vertically outward of said split, said bulge being resiliently outwardly offset in relation to said split to resiliently engage the chassis guides when said bracket is inserted in the chassis and protect said bracket
15 against vertical vibrations.

2. A bracket according to claim 1 which further comprises a spring being attached to one said bracket side, said spring extending laterally outward to resiliently engage said
20 chassis to protect said bracket against horizontal vibrations.

3. A bracket according to claim 2 in which said spring comprises a curved spring clip.

4. A bracket according to claim 3 in which said spring is electrically conductive and
25 which further comprises a metallic screw attaching said spring to said bracket, said screw being elongated to secure said bracket side to a drive side and establish electrical communication between the drive and said spring.

5. In combination, a disk drive having a drive front, rear, drive sides, top and bottom
30 and a first connector on said rear, a chassis having chassis sides formed with guides and a

second connector engageable with said first connector when said drive is inserted through said guides into said chassis,

5 said bracket comprising a pair of bracket sides attached to said drive sides and a crosspiece across said drive front,

10 at least one said bracket side being formed with a lengthwise split and having an outward bulge vertically outward of said split, said bulge being resiliently outwardly offset in relation to said split to resiliently engage said guides when said bracket is inserted in said chassis and protect said drive against vertical vibrations.

15 6. In combination, a disk drive having a drive front, rear, drive sides, top and bottom and a first connector on said rear, a chassis having sides formed with guides and a second connector engageable with said first connector when said drive is inserted through said guides into said chassis,

20 a bracket comprising a pair of bracket sides attached to the drive sides and a crosspiece across said drive front,

 a spring attached to one said bracket side, said spring extending laterally outward to resiliently engage said chassis to protect said drive against horizontal vibrations.

25 7. A combination according to claim 6 in which said spring comprises a curved spring clip.

30 8. A combination according to claim 7 in which said spring is electrically conductive and said chassis sides are electrically conductive and which further comprises a metallic screw attaching said spring to said bracket, said screw being elongated to secure said

bracket side said drive side and establish electrical communication between said drive and said chassis.

9. In combination a disk drive having a drive front, rear, drive sides, top and bottom for insertion into a chassis having chassis sides formed with guides and a second connector engageable with the first connector when the drive is inserted through the guides into the chassis,

a bracket comprising a pair of bracket sides attachable to the disk drive sides and a crosspiece across the drive front,

a handle, pivot pins pivotally mounting said handle to said crosspiece on a vertical axis spaced inward from a first end of said crosspiece for outward pivotal movement about said vertical axis,

first and second points on said handle extending horizontally outward relative to said first end, said first point lying approximately on a vertical plane including said handle, said second point being spaced rearward relative to said first point.

10. A combination according to claim 9 in which said first and second points are separated by a notch.

11. A combination according to claim 9 which further comprises first and second latch elements on said handle and said crosspiece respectively, to hold said handle closed.

12. A combination according to claim 11 in which one said latch element is resiliently biased into engagement with the other said latch element.

13. A combination according to claim 11 which further comprises a slide mounted in said crosspiece for horizontal transverse reciprocation and a spring on said slide fixed to said crosspiece, said second latch element moving with said slide, said spring biasing said second latch element into engagement with said first latch element.

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14. A combination according to claim 9 which further comprises a spring biasing said handle for pivotal movement away from said crosspiece.

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15. In combination a chassis, said chassis having spaced sides, said sides being formed with guides vertically spaced apart to guide a disk drive horizontally into said chassis, at least one said side having a front edge and a notch spaced inward from said front edge,

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a disk drive having a drive front, rear, drive sides, top and bottom and a first connector for insertion into a chassis having chassis sides formed with guides and a second connector engageable with said first connector when said drive is inserted through said guides into said chassis,

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a bracket comprising a pair of bracket sides attached to said drive sides and a crosspiece across said drive front,

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a handle, pivot pins pivotally mounting said handle to said crosspiece on a vertical axis spaced inward from a first end of said crosspiece for outward pivotal movement about said vertical axis,

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first and second points on said handle extending horizontally outward relative to said first end, said first point lying approximately on a vertical plane including said handle, said second point being spaced rearward relative to said first point.

said first and second points being separated by a notch,

said handle being pivotally moveable between a first position parallel to said crosspiece, a second position at a first angle to said crosspiece and a third position at a second angle to said crosspiece greater than said first angle, said first and second connections being in engagement when said handle is in first position,

said first point engaging said front edge when said handle is in second position, said first and second connectors being in engagement when said handle is in second position, said second point being in said slot when said handle is in second position,

said second point engaging a margin of said slot to pull said bracket outwardly of said chassis as said handle is moved outwardly from second to third positions and to disengage said first and second connectors.

16. A combination according to claim 15 which further comprises first and second latch elements on said handle and said crosspiece respectively, to hold said handle in first position.

17. A combination according to claim 16 in which one said latch element is resiliently biased into engagement with the other said latch element.

18. A combination according to claim 16 which further comprises a slide mounted in said crosspiece for horizontal transverse reciprocation and a spring on said slide fixed to said crosspiece, said second latch element moving with said slide, said spring biasing said second latch element into engagement with said first latch element.

19. The combination of claim 15 which further comprises a spring biasing said handle from first to second position.

20. In combination a chassis, said chassis having spaced sides, said sides being formed with horizontal guides vertically spaced apart to guide a disk drive horizontally into said chassis, at least one said side having a front edge and a slot spaced inward from said front edge,

a disk drive having a drive front, rear, drive sides, top and bottom and a first connector for insertion into a chassis having chassis sides formed with guides and a second connector engageable with said first connector when said drive is inserted through said guides into said chassis,

a bracket comprising a pair of bracket sides attached to said drive sides and a crosspiece across said drive front,

a handle, pivot pins pivotally mounting said handle to said crosspiece on a vertical axis spaced inward from a first end of said crosspiece for outward pivotal movement about said vertical axis,

first and second points on said handle extending horizontally outward relative to said first end, said first point lying approximately on a vertical plane including said handle, said second point being spaced rearward relative to said first point,

said first and second points being separated by a notch,

said handle being pivotally moveable between a first position parallel to said crosspiece, a second position at a first angle to said crosspiece and a third position at a second angle to said crosspiece greater than said first angle,

said first and second connections being in engagement when said handle is in first position,

said second point when said rear is inserted in said guide engaging said front edge when said handle is in third position, said second point entering said slot when said handle is pivoted from third to first positions,

said second point engaging a margin of said slot to pull said bracket inwardly of said chassis and to engage said first and second connectors.

21. A combination according to claim 20 which further comprises first and second latch elements on said handle and said crosspiece respectively, to hold said handle in first position.

22. An integral plastic spring formed of a resilient material comprising a slide reciprocal in a first direction, a connector remote from said slide, a curved spring portion interconnecting said slide and said connector, said curved spring portion having a first section extending in said first direction away from said slide, a second section curving in a second direction transverse to said first direction away from said first section and a third section curving in said second direction toward said connector, said curved section resiliently deforming when said slide is moved in said first direction away from said connector and said connector is held stationary.

23. A spring according to claim 22 in which said slide is formed with a latch protrusion extending in said first direction toward said curved spring.

24. A spring according to claim 22 in which said slide is formed with a recess shaped to enable the user to insert a finger into said recess and then slide in said first direction away from said connector.

25. A spring according to claim 22 which further comprises a second curved spring portion extending generally parallel to said first-mentioned curved spring portion, said second curved spring portion having a fourth section parallel to and spaced in said second direction from said first section, a fifth section curving in said second direction away from said fourth section and toward said second section and a sixth section curving in said second direction toward said connector, said second curved spring portion being spaced in said second direction from said first-mentioned spring portion

26. A bracket for mounting a storage device in a chassis, comprising:

two sides having opposing inner surfaces configured to face the storage device, wherein each of the two sides has a top surface and a bottom surface substantially perpendicular to the opposing inner surfaces, and wherein each of the two sides comprises a lengthwise split and at least one bulge on the top or bottom surface and aligned with the split, wherein the bulge is configured to resiliently engage a guide in the chassis; and

a crosspiece connecting the two sides.

27. The bracket as recited in claim 26, wherein said at least one bulge on the top or bottom surface of each side comprises a bulge on both the top and bottom surfaces of each side aligned with each respective lengthwise split, wherein each bulge is configured to resiliently engage the guide in the chassis.

28. The bracket as recited in claim 26, further comprising a spring attached to an outward facing surface of each side, wherein the spring is configured to resiliently engage the guide in the chassis.

29. The bracket as recited in claim 28, further comprising a screw for attaching each spring to the respective side of the bracket and for attaching the respective side of the bracket to the storage device.

5 30. The bracket as recited in claim 29, wherein each spring and screw are electrically conductive and configured to establish a conductive path between the storage device and the chassis.

10 31. The bracket as recited in claim 26, further comprising a handle pivotally mounted to the crosspiece, wherein an end of the handle is configured to engage the chassis to secure the bracket in the chassis when the handle is pivoted inward toward the crosspiece, and wherein the end of the handle is configured to disengage the bracket from the chassis when the handle is pivoted outward from the crosspiece.

15 32. The bracket as recited in claim 31, wherein the end of the handle comprises two points and a notch between the two points, wherein the end of the handle is configured such that the notch engages a flange of the chassis when the handle is flush with the crosspiece, and such that one of the points operates to disengage the bracket from the chassis when the handle is pivoted out from the crosspiece.

20 33. The bracket as recited in claim 31, further comprising a latch mechanism configured to latch the handle in a closed position flush with the crosspiece.

25 34. The bracket as recited in claim 33, further comprising a spring biased between the crosspiece and the handle and configured to bias the handle out from the crosspiece when the latch mechanism is released.

35. The bracket as recited in claim 33, wherein the latch mechanism comprises a slide and a spring mounted to the crosspiece, wherein the slide is configured to reciprocally

transverse across a portion of the crosspiece to release and close the latch mechanism, wherein the spring biases the slide to close the latch mechanism.

36. An apparatus, comprising:

a storage device;

a chassis having a guide for holding the storage device;

a bracket connected to the storage device, wherein the bracket comprises two sides having opposing inner surfaces facing the storage device, wherein each of the two sides has a top surface and a bottom surface substantially perpendicular to the opposing inner surfaces, and wherein each of the two sides comprises a lengthwise split and at least one bulge on the top or bottom surface and aligned with the split, wherein the bulge is configured to resiliently engage the guide in the chassis.

37. The apparatus as recited in claim 36, wherein said at least one bulge on the top or bottom surface of each side of the bracket comprises a bulge on both the top and bottom surfaces of each side aligned with each respective lengthwise split, wherein each bulge is configured to resiliently engage the guide in the chassis.

38. The apparatus as recited in claim 36, further comprising a spring attached to an outward facing surface of each side of the bracket, wherein the spring is configured to resiliently engage the guide in the chassis.

39. The apparatus as recited in claim 38, further comprising a screw for attaching each spring to the respective side of the bracket and for attaching the respective side of the bracket to the storage device.

40. The apparatus as recited in claim 39, wherein each spring and screw are electrically conductive and configured to establish a conductive path between the storage device and the chassis.

5 41. The apparatus as recited in claim 36, wherein the bracket further comprises:

a crosspiece connecting the two sides; and

10 a handle pivotally mounted to the crosspiece, wherein an end of the handle is configured to engage the chassis to secure the bracket and storage device in the chassis when the handle is pivoted inward toward the crosspiece, and wherein the end of the handle is configured to disengage the bracket and storage device from the chassis when the handle is pivoted outward from the crosspiece.

15 42. The apparatus as recited in claim 41, wherein the end of the handle comprises two points and a notch between the two points, wherein the end of the handle is configured such that the notch engages a flange of the chassis when the handle is flush with the crosspiece, and such that one of the points operates to disengage the bracket from the
20 chassis when the handle is pivoted out from the crosspiece.

43. The apparatus as recited in claim 41, wherein the bracket further comprises a latch mechanism configured to latch the handle in a closed position flush with the crosspiece.

25 44. The apparatus as recited in claim 43, wherein the bracket further comprises a spring biased between the crosspiece and the handle and configured to bias the handle out from the crosspiece when the latch mechanism is released.

30 45. The apparatus as recited in claim 43, wherein the latch mechanism comprises a slide and a spring mounted to the crosspiece, wherein the slide is configured to

reciprocally transverse across a portion of the crosspiece to release and close the latch mechanism, wherein the spring biases the slide to close the latch mechanism.

46. The apparatus as recited in claim 41, wherein the storage device comprises a connector and the chassis comprises a socket configured to receive the storage device connector, wherein the end of said handle is configured to pull the bracket and storage device into the chassis as the handle is pivoted in toward the crosspiece so that the storage device connector engages the chassis socket at a controlled rate.

47. The apparatus as recited in claim 41, wherein the storage device comprises a connector and the chassis comprises a socket configured to receive the storage device connector, wherein the end of said handle is configured to pull the bracket and storage device out from the chassis as the handle is pivoted out from the crosspiece so that the storage device connector disengages the chassis socket at a controlled rate.

48. The apparatus as recited in claim 36, wherein the storage device comprises a disk drive.

49. An assembly, comprising:

a storage device; and

two sides of a bracket connected to the storage device, the two sides having opposing inner surfaces configured to face the storage device, wherein each of the two sides has a top surface and a bottom surface substantially perpendicular to the opposing inner surfaces, and wherein each of the two sides comprises a lengthwise split and at least one bulge on the top or bottom surface and aligned with the split, wherein the bulge is configured to resiliently engage a guide in a chassis configured to receive the assembly.

50. The assembly as recited in claim 49, wherein said at least one bulge on the top or bottom surface of each side of the bracket comprises a bulge on both the top and bottom surfaces of each side aligned with each respective lengthwise split, wherein each bulge is configured to resiliently engage the guide in the chassis.

51. The assembly as recited in claim 49, further comprising a spring attached to an outward facing surface of each side of the bracket, wherein the spring is configured to resiliently engage the guide in the chassis.

52. The assembly as recited in claim 51, further comprising a screw for attaching each spring to the respective side of the bracket and for attaching the respective side of the bracket to the storage device.

53. The assembly as recited in claim 51, wherein each spring and screw are electrically conductive and configured to establish a conductive path between the storage device and the chassis.

54. The assembly as recited in claim 49, further comprising:

a crosspiece connecting the two sides of the bracket; and

a handle pivotally mounted to the crosspiece, wherein an end of the handle is configured to engage the chassis to secure the bracket and the storage device in the chassis when the handle is pivoted inward toward the crosspiece, and wherein the end of the handle is configured to disengage the bracket and the storage device from the chassis when the handle is pivoted outward from the crosspiece.

55. The assembly as recited in claim 54, wherein the end of the handle comprises two points and a notch between the two points, wherein the end of the handle is configured such that the notch engages a flange of the chassis when the handle is flush with the crosspiece, and such that one of the points operates to disengage the bracket and the storage device from the chassis when the handle is pivoted out from the crosspiece.

56. The assembly as recited in claim 54, further comprising a latch mechanism configured to latch the handle in a closed position flush with the crosspiece.

57. The assembly as recited in claim 56, further comprising a spring biased between the crosspiece and the handle and configured to bias the handle out from the crosspiece when the latch mechanism is released.

58. The assembly as recited in claim 56, wherein the latch mechanism comprises a slide and a spring mounted to the crosspiece, wherein the slide is configured to reciprocally transverse across a portion of the crosspiece to release and close the latch mechanism, wherein the spring biases the slide to close the latch mechanism.

59. A bracket for mounting a storage device in a chassis, comprising:

two sides;

a crosspiece connecting the two sides; and

a handle pivotally mounted to the crosspiece, wherein an end of the handle is configured to engage the chassis to secure the bracket in the chassis when the handle is pivoted inward toward the crosspiece, and wherein the end of the handle is configured to disengage the bracket from the chassis when the handle is pivoted outward from the crosspiece.

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60. The bracket as recited in claim 59, wherein the end of the handle comprises two points and a notch between the two points, wherein the end of the handle is configured such that the notch engages a flange of the chassis when the handle is flush with the crosspiece, and such that one of the points operates to disengage the bracket from the chassis when the handle is pivoted out from the crosspiece.

61. The bracket as recited in claim 59, further comprising a latch mechanism configured to latch the handle in a closed position flush with the crosspiece.

62. The bracket as recited in claim 61, further comprising a spring biased between the crosspiece and the handle and configured to bias the handle out from the crosspiece when the latch mechanism is released.

63. The bracket as recited in claim 61, wherein the latch mechanism comprises a slide and a spring mounted to the crosspiece, wherein the slide is configured to reciprocally transverse across a portion of the crosspiece to release and close the latch mechanism, wherein the spring biases the slide to close the latch mechanism.

64. The bracket as recited in claim 59, wherein the two sides have opposing inner surfaces configured to face the storage device, wherein each of the two sides has a top surface and a bottom surface substantially perpendicular to the opposing inner surfaces, and wherein each of the two sides comprises a lengthwise split and at least one bulge on the top or bottom surface and aligned with the split, wherein the bulge is configured to resiliently engage a guide in the chassis

65. The bracket as recited in claim 64, wherein said at least one bulge on the top or bottom surface of each side comprises a bulge on both the top and bottom surfaces of each side aligned with each respective lengthwise split, wherein each bulge is configured to resiliently engage the guide in the chassis.

66. The bracket as recited in claim 64, further comprising a spring attached to an outward facing surface of each side, wherein the spring is configured to resiliently engage the guide in the chassis.

67. The bracket as recited in claim 66, further comprising a screw for attaching each spring to the respective side of the bracket and for attaching the respective side of the bracket to the storage device.

68. The bracket as recited in claim 67, wherein each spring and screw are electrically conductive and configured to establish a conductive path between the storage device and the chassis.

69. An apparatus, comprising:

a storage device;

a chassis having a guide for holding the storage device;

a bracket connected to the storage device, the bracket comprising:

two sides;

a crosspiece connecting the two sides; and

a handle pivotally mounted to the crosspiece, wherein an end of the handle is configured to engage the chassis to secure the bracket and storage device in the chassis when the handle is pivoted inward toward the crosspiece, and wherein the end of the handle is configured to disengage the bracket and storage device from the chassis when the handle is pivoted outward from the crosspiece.

70. The apparatus as recited in claim 69, wherein the end of the handle comprises two points and a notch between the two points, wherein the end of the handle is configured such that the notch engages a flange of the chassis when the handle is flush with the crosspiece, and such that one of the points operates to disengage the bracket from the chassis when the handle is pivoted out from the crosspiece.

71. The apparatus as recited in claim 69, wherein the bracket further comprises a latch mechanism configured to latch the handle in a closed position flush with the crosspiece.

72. The apparatus as recited in claim 71, wherein the bracket further comprises a spring biased between the crosspiece and the handle and configured to bias the handle out from the crosspiece when the latch mechanism is released.

73. The apparatus as recited in claim 71, wherein the latch mechanism comprises a slide and a spring mounted to the crosspiece, wherein the slide is configured to reciprocally transverse across a portion of the crosspiece to release and close the latch mechanism, wherein the spring biases the slide to close the latch mechanism.

74. The apparatus as recited in claim 69, wherein the storage device comprises a connector and the chassis comprises a socket configured to receive the storage device connector, wherein the end of said handle is configured to pull the bracket and storage device into the chassis as the handle is pivoted in toward the crosspiece so that the storage device connector engages the chassis socket at a controlled rate.

75. The apparatus as recited in claim 69, wherein the storage device comprises a connector and the chassis comprises a socket configured to receive the storage device connector, wherein the end of said handle is configured to pull the bracket and storage device out from the chassis as the handle is pivoted out from the crosspiece so that the storage device connector disengages the chassis socket at a controlled rate.

76. The apparatus as recited in claim 69, wherein the storage device comprises a disk drive.

5 77. The apparatus as recited in claim 69, wherein the two sides of the bracket have opposing inner surfaces facing the storage device, wherein each of the two sides has a top surface and a bottom surface substantially perpendicular to the opposing inner surfaces, and wherein each of the two sides comprises a lengthwise split and at least one bulge on the top or bottom surface and aligned with the split, wherein the bulge is configured to
10 resiliently engage the guide in the chassis.

78. The apparatus as recited in claim 77, wherein said at least one bulge on the top or bottom surface of each side of the bracket comprises a bulge on both the top and bottom surfaces of each side aligned with each respective lengthwise split, wherein each bulge is
15 configured to resiliently engage the guide in the chassis.

79. The apparatus as recited in claim 77, further comprising a spring attached to an outward facing surface of each side of the bracket, wherein the spring is configured to resiliently engage the guide in the chassis.

20 80. The apparatus as recited in claim 79, further comprising a screw for attaching each spring to the respective side of the bracket and for attaching the respective side of the bracket to the storage device.

25 81. The apparatus as recited in claim 80, wherein each spring and screw are electrically conductive and configured to establish a conductive path between the storage device and the chassis.

82. An assembly, comprising:
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a storage device;

two sides of a bracket connected to the storage device;

5 a crosspiece connecting the two sides of the bracket; and

a handle pivotally mounted to the crosspiece, wherein an end of the handle is configured to engage a chassis to secure the bracket and the storage device in the chassis when the handle is pivoted inward toward the crosspiece, and wherein the end of the handle is configured to disengage the bracket and the storage device from the chassis when the handle is pivoted outward from the crosspiece.

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83. The assembly as recited in claim 82, wherein the end of the handle comprises two points and a notch between the two points, wherein the end of the handle is configured such that the notch engages a flange of the chassis when the handle is flush with the crosspiece, and such that one of the points operates to disengage the bracket and the storage device from the chassis when the handle is pivoted out from the crosspiece.

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84. The assembly as recited in claim 82, further comprising a latch mechanism configured to latch the handle in a closed position flush with the crosspiece.

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85. The assembly as recited in claim 84, further comprising a spring biased between the crosspiece and the handle and configured to bias the handle out from the crosspiece when the latch mechanism is released.

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86. The assembly as recited in claim 84, wherein the latch mechanism comprises a slide and a spring mounted to the crosspiece, wherein the slide is configured to reciprocally transverse across a portion of the crosspiece to release and close the latch mechanism, wherein the spring biases the slide to close the latch mechanism.

87. The assembly as recited in claim 82, wherein the two sides of the bracket have opposing inner surfaces configured to face the storage device, wherein each of the two sides has a top surface and a bottom surface substantially perpendicular to the opposing inner surfaces, and wherein each of the two sides comprises a lengthwise split and at least one bulge on the top or bottom surface and aligned with the split, wherein the bulge is configured to resiliently engage a guide in a chassis configured to receive the assembly.

88. The assembly as recited in claim 87, wherein said at least one bulge on the top or bottom surface of each side of the bracket comprises a bulge on both the top and bottom surfaces of each side aligned with each respective lengthwise split, wherein each bulge is configured to resiliently engage the guide in the chassis.

89. The assembly as recited in claim 87, further comprising a spring attached to an outward facing surface of each side of the bracket, wherein the spring is configured to resiliently engage the guide in the chassis.

90. The assembly as recited in claim 89, further comprising a screw for attaching each spring to the respective side of the bracket and for attaching the respective side of the bracket to the storage device.

91. The assembly as recited in claim 89, wherein each spring and screw are electrically conductive and configured to establish a conductive path between the storage device and the chassis.

92. The assembly as recited in claim 82, wherein the storage device comprises a disk drive.

93. In combination, a chassis having spaced sides, said sides being formed with guides spaced apart to guide a disk drive in a direction parallel to said sides into said

chassis, at least one said side having a front edge and a slot spaced inward from said front edge;

5 a disk drive having a drive front, rear, drive sides, top and bottom and a first connector for insertion into the chassis, wherein the sides of the chassis are formed with guides and wherein the chassis comprises a second connector engageable with said first connector when said drive is inserted through said guides into said chassis;

10 a bracket comprising a pair of bracket sides attached to said drive sides and a crosspiece across said drive front;

15 a handle pivotally mounted to said crosspiece inward from a first end of said crosspiece for outward pivotal movement;

20 first and second points on said handle extending outward relative to said first end, said first point lying approximately on a plane including and parallel to said handle, said second point being spaced rearward relative to said first point;

said first and second points being separated by a notch;

25 said handle being pivotally moveable between a first position parallel to said crosspiece, a second position at a first angle to said crosspiece and a third position at a second angle to said crosspiece greater than said first angle, said first and second connectors being in engagement when said handle is in said first position;

said first point engaging said front edge when said handle is in said second position, said first and second connectors being in engagement when said handle is in said second position;

5 said first point engaging said front edge to pull said bracket outwardly of said chassis as said handle is moved outwardly from said second to third positions and to disengage said first and second connectors.

10 94. The combination as recited in claim 93, further comprising first and second latch elements on said handle and said crosspiece respectively, to hold said handle in said first position.

15 95. The combination as recited in claim 94, wherein one said latch element is resiliently biased into engagement with the other said latch element.

20 96. The combination as recited in claim 94, further comprising a slide mounted in said crosspiece for horizontal transverse reciprocation and a spring on said slide fixed to said crosspiece, said second latch element moving with said slide, said spring biasing said second latch element into engagement with said first latch element.

97. The combination as recited in claim 93, further comprising a spring biasing said handle from said first to said second position.